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Pathogenesis of Autoimmune Neuronal Disorders

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Message from the Guest Editor

The study of autoimmune neurological diseases constitutes an exciting and expanding field. Since the initial description of anti-NMDAR antibodies in 2007 by Dr. Josep Dalmau, the identification of novel antibodies and target autoantigens has experienced an almost exponential increase, and syndromes previously considered idiopathic, untreatable, or misdiagnosed can now be recognized and properly categorized, and patients can receive efficient treatments. Neuronal antibodies are associated with different syndromes, but their contribution to the pathogenesis and the central nervous system dysfunction is highly dependent on whether the antigen is extracellular or intracellular. Those antibodies directed against cell-surface targets are more likely to be pathogenic (NMDAR, LGI1, CASPR2, etc.), and those directed to intracellular antigens (Hu, Yo, Ri, amphiphysin, Ma2 etc.) are more likely to reflect a T-cell-mediated response and neuronal damage.

This Special Issue aims to gather different aspects of these interesting autoimmune neurological disorders, review the knowledge about their pathogenesis, and collect new interesting biomarker studies.



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Special Issue



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Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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